

Title (en)
Reel device for cable

Title (de)
Vorrichtung zur Aufrollung von Kabeln

Title (fr)
Dispositif d'embobinage de câble

Publication
EP 0775611 A2 19970528 (EN)

Application
EP 96119454 A 19941221

Priority

- EP 94120325 A 19941221
- JP 32473793 A 19931222
- JP 32473993 A 19931222
- JP 33307093 A 19931227
- JP 11254494 A 19940526
- JP 32474093 A 19931222

Abstract (en)
A reel device for a flat cable through which electrical component parts mounted on a steering wheel are electrically connected with electrical component parts on a vehicle body side. The reel device is disposed between the steering wheel and a combination switch mounted on the vehicle body side and comprises a generally cylindrical frame section inside which a shaft section is disposed rotatable relative to the frame section. The frame section is fixed to the combination switch, whereas the shaft section is fixedly mounted around the steering shaft. The flat cable is movably disposed in an annular cable storing space formed between the frame section and the shaft section. A generally annular guide member is movably disposed in the cable storing space and located between the cable wound on the outer peripheral surface of the shaft section and the cable wound on the inner peripheral surface of the frame section. The guide member is formed with a slit through which the flat cable extending between inside and outside of the guide member is passed upon being turned over. Said slit is defining a convex and a concave surface. At least one peripheral projection is formed on the inner peripheral surface of the guide member, said peripheral projection being located near the concave surface of said slit and projected beyond an end portion of the concave surface towards the convex surface. <IMAGE>

IPC 1-7
B60R 16/02

IPC 8 full level
B60R 16/02 (2006.01); **B60R 16/027** (2006.01)

CPC (source: EP US)
B60R 16/027 (2013.01 - EP US)

Citation (applicant)
JP H0556543 B2 19930819 - NIPPON ELECTRIC CO

Cited by
US6116930A; EP0924815A1; US6736657B2; WO0162551A1; EP0770521B1

Designated contracting state (EPC)
DE GB

DOCDB simple family (publication)
EP 0659614 A1 19950628; EP 0659614 B1 19980819; DE 69412574 D1 19980924; DE 69412574 T2 19981224; EP 0775611 A2 19970528; EP 0775611 A3 19980408; US 5772146 A 19980630

DOCDB simple family (application)
EP 94120325 A 19941221; DE 69412574 T 19941221; EP 96119454 A 19941221; US 76080996 A 19961205